

DE2000 and DE4000 Storage Systems for Video Surveillance

Dense and flexible storage solutions to keep pace with advances in surveillance video and analytics technology

Key Benefits

Support for High-Bandwidth Video Surveillance Environments

Dependable high-performance bandwidth supports high-definition and high-megapixel environments.

High Efficiency through World-Class Density and Scalability

High-density modular block design allows support for large-scale capacity and seamless expandability.

Extreme Flexibility with Modular Architecture

Standard 2U enclosures allow a small start, and standard 4U enclosures allow precise scaling and growth over time.

Ease of Use and Configuration

The powerful on-box browser-based Lenovo ThinkSystem System Manager software provides an intuitive interface for administering Lenovo DE Series storage systems. No storage expertise is required. Installation is easy with the help of the storage wizard.

Why Does Storage in Video Surveillance Matter?

From on-body police cameras to 24/7 monitoring of major transportation hubs, video has become a strategic source of information, insights, and intelligence. Major cities throughout the world are mounting video surveillance cameras to watch over streets, subways, mass transit, parks, and other public places. These new intelligent video surveillance cameras and analytical applications are capturing more evidence than ever, causing an increase in bandwidth requirements, write speeds, and storage capacities. The volume and size of media content are greatly expanding as resolution and retention requirements increase.

As a result, governments, retail enterprises, and other public entities are faced with serious challenges concerning media storage. Traditional storage architectures are not designed for massive amounts of big video content. Because of the increased number of cameras, longer retention periods, and higher camera bit rates, traditional standalone network video recorder (NVR) solutions have become inefficient and costly.

The Lenovo video surveillance solution, combined with leading video management software, provides superior benefits to meet the new security surveillance challenges of data retrieval, retention, capture, and analysis.

Lenovo DE2000 and DE4000 Video Storage Solutions

The Lenovo DE2000 and DE4000 systems are designed as an enterprise-level storage system. They meet your business requirements by providing reliable storage that you can access whenever you need it. The modular architecture and pay-as-you-grow flexibility make the DE2000 and DE4000 systems excellent candidates for surveillance solutions that start small and grow with your storage needs. Organizations can start with zero to 100 cameras and easily expand their system to several hundred cameras over time.

The DE2000 and DE4000 systems deliver high bandwidth and performance while minimizing complexity and maintenance, power, and space requirements. The intuitive interface of the DE2000 and DE4000 systems simplifies installation and maintenance.

Leading intelligent video security applications combined with DE Series storage can handle the heavy computational workloads and bandwidth-sensitive streaming environments of emerging video surveillance infrastructures and analytic surveillance technology.

With this combination, you get:

- Consistent high-performance bandwidth for media-intensive video streaming environments
- Performance-tuned solutions that deliver high-availability access for media content needs

- Superior performance to and from NVR for greater camera support and reduced NVR instances
- The capability to leverage your investment in video cameras and networks and maintain productivity with high-availability storage, with zero downtime

Support for High-Bandwidth Video Surveillance Environments

Validated and tested designs with video surveillance management application leaders

The Lenovo video surveillance storage solution combines high-performance storage with leading video security management companies' solutions, so you can optimize your video infrastructure. IP video security management leaders such as Milestone have teamed with Lenovo to offer increased file system optimization for large datasets. With Lenovo DE Series storage, you get high-performance access to video content, including HD resolutions, and support for digital and analog video surveillance installations. In addition:

- DE Series systems offer high-bandwidth support; performance is optimized to support any number of video streams simultaneously.
- Each DE2000 system can deliver up to 3GBps sequential reads and 0.9GBps sequential writes.
- Each DE4000 system can deliver up to 9.2GBps sequential reads and 2.7GBps sequential writes.
- Each DE2000 system supports up to 558 cameras and DE4000 system supports up to 1,674 cameras, recording at up to 2Mbps per camera and for a retention period of up to 30 days.

High Efficiency through World-Class Density and Scalability

Start small and grow big with DE2000 or DE4000

The Lenovo video storage solution delivers among the highest-density scale-out storage to support the unique requirements of large government and commercial video surveillance infrastructures. By using an industry-standard rack configuration, the solution can scale up to dozens of nodes with multiple gigabytes per second of throughput and petabytes of storage.

Modular design

The modular architecture allows nondisruptive scaling of performance and capacity so that applications and data are available when and where you need them. Your system can grow with minimal additional components, eliminating the need to over configure. Each DE2000 modular block supports up to 1.5PB of raw capacity in just 8 standard rack units and each DE4000 modular block supports up to 3.07PB of raw capacity in just 12 standard rack units.

World-class density

Space and cooling efficiency are maximized in a standard 19-inch rack. Lenovo DE Series storage uses 40% fewer drives and 25% less rack space and power than traditional rack mount storage.

Scalability of external storage system

Pay-as-you-grow scalability that starts at 24TB enables NVR consolidation and global data access.

Modular Flexibility

With DE4000, your system can start as small as 6 drives and grow seamlessly—without any downtime—to 192 drives in just 12 rack units. DE2000 systems can scale to 96 drives in just 8 rack units. And you can add more blocks to the system

whenever you need them. Depending on the type and the number of cameras and the required retention period, you can start with as few as tens of cameras and expand to hundreds of cameras in the future.

Choice to grow by using 12-drive, 24-drive or 60-drive shelves or both

With the mix-and-match capability that Lenovo offers on DE4000, your organization can align its video storage infrastructure with the dramatically changing requirements of number of cameras, type of cameras, and even retention periods. DE2000 supports 12-drive and 24-drive shelves.

Flexible Interface Options

The DE2000 and DE4000 systems supports a complete set of host or network interfaces designed for either direct server attach or network environments. With multiple ports per interface, the rich connectivity provides ample options and bandwidth for high throughput. The interfaces include quad-lane SAS, iSCSI, FC, to connect with and protect investments in storage networking.

Intuitive Management

The Lenovo ThinkSystem System Manager software offers extensive configuration flexibility, which allows optimal performance tuning and complete control over data placement. With its dynamic capabilities, Lenovo software supports on-the-fly expansion, reconfigurations, and maintenance without interrupting storage system I/O.

Optimized for Increased Productivity: No

Scheduled Downtime

Deploy with confidence

The Lenovo video storage solution is architected to provide industry-leading reliability and availability. By using seventh-generation controller technology, Lenovo delivers field-proven technology in a tested and validated solution, with years of firmware development behind it for rapid deployment. By teaming with leading video security management software companies, Lenovo offers a video storage solution that is optimized for managing tens of petabytes of video data, enabling rapid access to and retrieval of content.

Maximum serviceability and reliability

DE Series system hardware delivers 99.999% availability.

High availability with best-in-class redundancy

Dual redundant controllers, multipathing failover, and dynamic features provide high-availability access to video surveillance recordings.

Dynamic Disk Pools Technology

Dynamic Disk Pools (DDP) simplify the management of traditional RAID groups by distributing data parity information and spare capacity across a pool of drives. DDP enhances data protection by enabling faster rebuilds after a drive failure, protecting against potential data loss if additional drive failures occur.

DDP also generally provides better system performance under failure during a drive rebuild than traditional RAID. Dynamic Disk Pools eliminate complex RAID management, with no idle spares to manage, no reconfiguring of RAID when expanding, and a significantly reduced performance impact following failure of a drive or drives when compared to traditional RAID.

Proven Data Reliability, Availability, and Serviceability

The three main factors that make a storage system the best fit for video surveillance environments are Reliability, Availability, and Serviceability (RAS). The DE2000 and DE4000 systems are based on a field-proven architecture that delivers high reliability and greater than 99.999% (five-9s) availability, often exceeding six-9s availability when following Lenovo best practices. The DE2000 and DE4000 systems offers excellent price to performance for small and medium video surveillance installations.

Video Surveillance Application Integration

Lenovo DE Series products have been deployed and used with some of today's most popular video surveillance management applications like Milestone and other leading video management software (VMS) providers. With its configurable options, the system integrates into almost any video surveillance environment that requires external storage. It also meets the reliability and sustained performance demands of IP video surveillance workloads, in which sustaining performance is critical.

ENERGY STAR Certification

All DE Series systems use "85% PLUS" power supplies, exceeding the EPA ENERGY STAR requirements of 80% efficiency.

The modular DE Series system can be set up in tens of thousands of different energy-efficient configurations. The following configurations are EPA ENERGY STAR certified:

- DE2000H 2U24 with 24 drives
- DE4000H 2U12 with 12 drives
- DE4000H 2U24 with 24 drives
- DE4000H 4U60 with 60 drives

For the latest EPA ENERGY STAR certified DE Series configurations, see the following:

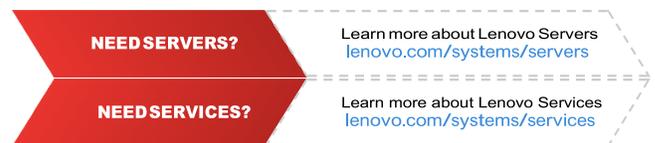
- http://www.energystar.gov/certified-products/detail/data_center_storage

Why Lenovo

Lenovo is a leading provider of systems for the data center. The portfolio includes rack, tower, blade, dense, and hyperconverged systems, and provides enterprise-class performance, reliability, and security. Lenovo also offers a full range of networking, storage, software, and solutions, as well as comprehensive services that support business needs throughout the IT lifecycle.

For More Information

To learn more about the ThinkSystem DE Series storage, contact your Lenovo representative or Business Partner or visit lenovo.com/storage.



DE2000H System Specifications

Form factor	<ul style="list-style-type: none"> DE2000H 2U24 SFF controller enclosure (Machine Type 7Y71): 2U rack mount. DE2000H 2U12 LFF controller enclosure (Machine Type 7Y70): 2U rack mount. DE240S 2U24 SFF expansion enclosure (Machine Type 7Y68): 2U rack mount. DE120S 2U12 LFF expansion enclosure (Machine Type 7Y63): 2U rack mount.
Controller configuration	Dual active-active controller configuration with automatic load balancing.
RAID levels	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools. Note: RAID 3 can be configured only through the CLI.
Controller cache	16 GB per system (8 GB per controller). Cache mirroring between the controllers. Flash-backed cache protection (includes battery for destaging to flash).
Drive bays	Up to 4 enclosures per system (Controller unit with up to 3 expansion units): <ul style="list-style-type: none"> Up to 48 LFF hot-swap drive bays (Up to 4x 2U12 LFF enclosures) Up to 96 SFF hot-swap drive bays (Up to 4x 2U24 LFF enclosures) Intermix of 2U24 SFF and 2U12 LFF enclosures is supported.
Drive technology	<ul style="list-style-type: none"> 12 Gb SAS and NL SAS HDDs and FIPS HDDs, 12 Gb SAS SSDs and FIPS SSDs. Intermix of HDDs and SSDs is supported within a system. Intermix of HDDs and SSDs is not supported within a volume group or disk pool. Intermix of FIPS drives and non-FIPS drives is supported within a system. Intermix of FIPS drives and non-FIPS drives is not supported within a volume group or disk pool.
Drive expansion connectivity	<ul style="list-style-type: none"> 2x 12 Gb SAS x4 (Mini-SAS HD SFF-8644) expansion ports on each of two controllers in the controller enclosure for the attachment of the expansion enclosures. 4x 12 Gb SAS x4 (Mini-SAS HD SFF-8644) expansion ports on each of two I/O modules in the expansion enclosure for the attachment to the controller enclosure and daisy chaining of the expansion enclosures.
Drives	<p>2U24 SFF drives:</p> <ul style="list-style-type: none"> 1.2 TB and 1.8 TB 10K rpm SAS HDDs 1.8 TB 10K rpm SAS FIPS HDDs 3.84 TB, 7.68 TB, and 15.36 TB SAS SSDs (1 DWD) 800 GB, 1.6 TB, and 3.2 TB SAS SSDs (3 DWD) 1.6 TB SAS FIPS SSDs (3 DWD) <p>2U12 LFF drives:</p> <ul style="list-style-type: none"> 4 TB, 8 TB, 10 TB, 12 TB, and 16 TB 7.2K rpm NL SAS HDDs 6 TB and 10 TB 7.2K rpm NL SAS FIPS HDDs 800 GB SAS SSDs (3 DWD) 1.6 TB SAS FIPS SSDs (3 DWD)
Storage capacity	Up to 1.47 PB (96x 15.36 TB SFF SSDs).
Host connectivity	<p>Base ports (per controller enclosure with two controllers):</p> <ul style="list-style-type: none"> 4x 1/10 Gb iSCSI (RJ-45 [1 Gb iSCSI only], DAC, or SW fiber optics, LC) or 4/8/16 Gb FC (SW fiber optics, LC) SFP+ host ports (2 ports per controller) <p>Optional additional ports on host interface cards (per controller enclosure with two controllers):</p> <ul style="list-style-type: none"> 4x 12 Gb SAS host ports (Mini-SAS HD, SFF-8644) (2 ports per controller) 4x 1/10 Gb iSCSI RJ-45 host ports (2 ports per controller)
Host operating systems	Microsoft Windows Server 2012 R2, 2016, and 2019; Red Hat Enterprise Linux (RHEL) 6, 7, and 8; SUSE Linux Enterprise Server (SLES) 11, 12, and 15; VMware vSphere 6.5, 6.7, and 7.0.
Standard software features	Dynamic Disk Pools, SSD read cache, snapshots (up to 128 targets), volume copy, thin provisioning (DDP only), encryption (requires optional FIPS drives), and data assurance.
Optional software features	Snapshots (up to 512 targets), asynchronous mirroring.
Performance**	<ul style="list-style-type: none"> Up to 100 000 random read IOPS (4 KB blocks). Up to 35 000 random write IOPS (4 KB blocks). Up to 3 GBps sequential read throughput (64 KB blocks). Up to 0.9 GBps sequential write throughput (64 KB blocks).
Configuration maximums***	<ul style="list-style-type: none"> Maximum storage capacity: 1.47 PB Maximum number of logical volumes: 512 Maximum logical volume size: 2 PB Maximum thin-provisioned logical volume size (DDP only): 256 TB Maximum number of drives in a RAID volume group: <ul style="list-style-type: none"> RAID 0, 1/10: 96 RAID 3, 5, 6: 30 Maximum number of DDP arrays: 20 Maximum number of drives in a DDP array: 96 (11 drives minimum) Maximum SSD read cache size: 4 TB Maximum number of hosts: 256

	<ul style="list-style-type: none"> Maximum number of snapshots: 512 (requires an optional license) Maximum number of mirroring pairs: 32 (requires an optional license)
Cooling	Redundant cooling with the fans that are built into power supplies.
Power supply	Two redundant hot-swap 913 W (100 - 240 V) Platinum AC power supplies.
Hot-swap parts	Controllers, I/O modules, drives, power supplies, and SFP+ transceivers.
Management ports	<ul style="list-style-type: none"> 1x 1 GbE port (UTP, RJ-45) per controller for out-of-band management. 2x Serial console ports (RJ-45 and Micro-USB) for system configuration. In-band management via I/O path.
Management interfaces	System Manager web-based GUI; SAN Manager standalone GUI; SSH CLI; Serial console CLI; SMI-S Provider; SNMP, email, and syslog alerts; optional Lenovo XClarity.
Security features	Secure Socket Layer (SSL), Secure Shell (SSH), user level security, role-based access control (RBAC), LDAP authentication.
Warranty and support	Three-year customer-replaceable unit and onsite limited warranty with 9x5 next business day (NBD) parts delivered. Also available are 9x5 NBD onsite response, 24x7 coverage with 2-hour or 4-hour onsite response, or 6-hour or 24-hour committed repair (select areas), YourDrive YourData, Premier Support, and 1-year or 2-year post-warranty extensions.
Software maintenance	Included in the base warranty and any Lenovo warranty extensions.
Dimensions	<p>2U24 SFF enclosure:</p> <ul style="list-style-type: none"> Height: 85 mm (3.4 in.) Width: 449 mm (17.7 in.) Depth: 553 mm (21.8 in.) <p>2U12 LFF enclosure:</p> <ul style="list-style-type: none"> Height: 85 mm (3.4 in.) Width: 447 mm (17.6 in.) Depth: 483 mm (19.0 in.)
Weight	<p>2U24 SFF enclosure (fully configured): 27.6 kg (60.8 lb)</p> <p>2U12 LFF enclosure (fully configured): 27.6 kg (60.8 lb)</p>

DE4000H System Specifications

Form factor	<ul style="list-style-type: none"> DE4000H 2U24 SFF controller enclosure (Machine Type 7Y75): 2U rack mount. DE4000H 2U12 LFF controller enclosure (Machine Type 7Y74): 2U rack mount. DE4000H 4U60 LFF controller enclosure (Machine Type 7Y77): 4U rack mount. DE240S 2U24 SFF expansion enclosure (Machine Type 7Y68): 2U rack mount. DE120S 2U12 LFF expansion enclosure (Machine Type 7Y63): 2U rack mount. DE600S 4U60 LFF expansion enclosure (Machine Type 7Y69): 4U rack mount.
Controller configuration	Dual active-active controller configuration with automatic load balancing.
RAID levels	RAID 0, 1, 3, 5, 6, and 10; Dynamic Disk Pools. Note: RAID 3 can be configured only through the CLI.
Controller cache	16 GB or 64 GB per system (8 GB or 32 GB per controller). Cache mirroring between the controllers. Flash-backed cache protection (includes battery for destaging to flash).
Drive bays	<p>Up to 8 enclosures per system (Controller unit with up to 3 [4U60] or 7 [2U24 or 2U12] expansion units):</p> <ul style="list-style-type: none"> Up to 192 LFF hot-swap drive bays (Up to 1x 2U12 and 3x 4U60 LFF enclosures) Up to 192 SFF hot-swap drive bays (Up to 8x 2U24 LFF enclosures) <p>Intermix of 2U24 SFF, 2U12 LFF, and 4U60 LFF enclosures is supported for a total of up to 192 drives per system.</p>
Drive technology	<ul style="list-style-type: none"> 12 Gb SAS and NL SAS HDDs and FIPS HDDs, 12 Gb SAS SSDs and FIPS SSDs. Intermix of HDDs and SSDs is supported within a system. Intermix of HDDs and SSDs is not supported within a volume group or disk pool. A maximum of 120 SAS SSDs is supported. Intermix of FIPS drives and non-FIPS drives is supported within a system. Intermix of FIPS drives and non-FIPS drives is not supported within a volume group or disk pool.
Drive expansion connectivity	<ul style="list-style-type: none"> 2x 12 Gb SAS x4 (Mini-SAS HD SFF-8644) expansion ports on each of two controllers in the controller enclosure for the attachment of the expansion enclosures. 4x 12 Gb SAS x4 (Mini-SAS HD SFF-8644) expansion ports on each of two I/O modules in the expansion enclosure for the attachment to the controller enclosure and daisy chaining of the expansion enclosures.
Drives	<p>2U24 SFF drives:</p> <ul style="list-style-type: none"> 1.2 TB and 1.8 TB 10K rpm SAS HDDs 1.8 TB 10K rpm SAS FIPS HDDs 3.84 TB, 7.68 TB, and 15.36 TB SAS SSDs (1 DWD)

	<ul style="list-style-type: none"> 800 GB, 1.6 TB, and 3.2 TB SAS SSDs (3 DWD) 1.6 TB SAS FIPS SSDs (3 DWD) <p>2U12 LFF drives:</p> <ul style="list-style-type: none"> 4 TB, 8 TB, 10 TB, 12 TB, and 16 TB 7.2K rpm NL SAS HDDs 6 TB and 10 TB 7.2K rpm NL SAS FIPS HDDs 800 GB SAS SSDs (3 DWD) 1.6 TB SAS FIPS SSDs (3 DWD) <p>4U60 LFF drives:</p> <ul style="list-style-type: none"> 4 TB, 8 TB, 10 TB, 12 TB, and 16 TB 7.2K rpm NL SAS HDDs 10 TB 7.2K rpm NL SAS FIPS HDDs 800 GB, 1.6 TB, and 3.2 TB SAS SSDs (3 DWD) 1.6 TB SAS FIPS SSDs (3 DWD)
Storage capacity	Up to 3 PB (192x 16 TB LFF HDDs).
Host connectivity	<p>Base ports (per controller enclosure with two controllers):</p> <ul style="list-style-type: none"> 4x 1/10 Gb iSCSI (RJ-45 [1 Gb iSCSI only], DAC, or SW fiber optics [LC]) or 4/8/16 Gb FC (SW fiber optics [LC]) SFP+ host ports (2 ports per controller) Additional ports on host interface cards (per controller enclosure with two controllers): 8x 12 Gb SAS host ports (Mini-SAS HD, SFF-8644) (4 ports per controller) 8x 10/25 Gb iSCSI SFP28 host ports (DAC or SW fiber optics [LC]) (4 ports per controller) 8x 8/16/32 Gb FC SFP+ host ports (SW fiber optics [LC]) (4 ports per controller) 8x 1/10 Gb iSCSI (RJ-45 [1 Gb iSCSI only], DAC, or SW fiber optics [LC]) or 4/8/16 Gb FC (SW fiber optics [LC]) SFP+ host ports (4 ports per controller) 4x 1/10 Gb iSCSI RJ-45 host ports (2 ports per controller; 2U12 LFF and 2U24 SFF only) <p>Note: Two host interface cards are required for selection (one per controller).</p>
Host operating systems	Microsoft Windows Server 2012 R2, 2016, and 2019; Red Hat Enterprise Linux (RHEL) 6, 7, and 8; SUSE Linux Enterprise Server (SLES) 11, 12, and 15; VMware vSphere 6.5, 6.7, and 7.0.
Standard software features	Dynamic Disk Pools, SSD read cache, snapshots (up to 128 targets), volume copy, thin provisioning (DDP only), encryption (requires optional FIPS drives), and data assurance.
Optional software features	Snapshots (up to 512 targets), synchronous mirroring, and asynchronous mirroring.
Performance**	<ul style="list-style-type: none"> Up to 300 000 random read IOPS (4 KB blocks). Up to 109 000 random write IOPS (4 KB blocks). Up to 9.2 GBps sequential read throughput (64 KB blocks). Up to 2.7 GBps sequential write throughput (64 KB blocks).
Configuration maximums***	<ul style="list-style-type: none"> Maximum storage capacity: 3 PB Maximum number of logical volumes: 512 Maximum logical volume size: 2 PB Maximum thin-provisioned logical volume size (DDP only): 256 TB Maximum number of drives in a RAID volume group: RAID 0, 1/10: 192 RAID 3, 5, 6: 30 Maximum number of DDP arrays: 20 Maximum number of drives in a DDP array: 192 (11 drives minimum) Maximum SSD read cache size: 4 TB Maximum number of hosts: 256 Maximum number of snapshots: 512 (requires an optional license) Maximum number of mirroring pairs: 32 (requires an optional license)
Cooling	Redundant cooling with two cooling modules (4U60 LFF) or with the fans that are built into power supplies (2U24 SFF and 2U12 LFF).
Power supply	Two redundant hot-swap 913 W (100 - 240 V) (2U24 and 2U12 enclosures) or 2325 W (200 - 240 V) (4U60 enclosures) Platinum AC power supplies.
Hot-swap parts	Controllers, I/O modules, drives, power supplies, cooling modules (4U60 LFF only), and SFP+/SFP28 transceivers.
Management ports	<ul style="list-style-type: none"> 1x 1 GbE port (UTP, RJ-45) per controller for out-of-band management. 2x Serial console ports (RJ-45 and Micro-USB) for system configuration. In-band management via I/O path.
Management interfaces	System Manager web-based GUI; SAN Manager standalone GUI; SSH CLI; Serial console CLI; SMI-S Provider; SNMP, email, and syslog alerts; optional Lenovo XClarity.
Security features	Secure Socket Layer (SSL), Secure Shell (SSH), user level security, role-based access control (RBAC), LDAP authentication.
Warranty and support	Three-year customer-replaceable unit and onsite limited warranty with 9x5 next business day (NBD) parts delivered. Also available are 9x5 NBD onsite response, 24x7 coverage with 2-hour or 4-hour onsite response, or 6-hour or 24-hour committed repair (select areas), YourDrive YourData, Premier Support, and 1-year or 2-year post-warranty extensions.

Software maintenance	Included in the base warranty and any Lenovo warranty extensions.
Dimensions	<p>2U24 SFF enclosure:</p> <ul style="list-style-type: none"> • Height: 85 mm (3.4 in.) • Width: 449 mm (17.7 in.) • Depth: 553 mm (21.8 in.) <p>2U12 LFF enclosure:</p> <ul style="list-style-type: none"> • Height: 85 mm (3.4 in.) • Width: 447 mm (17.6 in.) • Depth: 483 mm (19.0 in.) <p>4U60 LFF enclosure:</p> <ul style="list-style-type: none"> • Height: 174 mm (6.9 in.) • Width: 449 mm (17.7 in.) • Depth: 922 mm (36.3 in.)
Weight	<ul style="list-style-type: none"> • 2U24 SFF enclosure (fully configured): 27.6 kg (60.8 lb) • 2U12 LFF enclosure (fully configured): 27.6 kg (60.8 lb) • 4U60 LFF enclosure (fully configured): 111.5 kg (245.8 lb)

* The maximum number of camera recordings supported by each DE Series system is highly dependent on several factors such as number of cameras, camera stream bitrate, and retention period.

** Estimated performance based on internal measurements.

*** For a detailed list of configuration limits and restrictions for a specific version of the software, refer to the Lenovo Data Center Support website: <http://datacentersupport.lenovo.com>

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